

Abstract of the Disclosure

A stream computer has a first plurality of interconnected functional units. The functional units are responsive to a data stream containing data and tokens. The data is to be operated on by one or more of the first plurality of interconnected functional units.

5 A second plurality of said interconnected functional units, also part of said stream computer units, are allocated for comparing the data stream with a debug stream to generate debug signals. Reporting logic is responsive to the debug signals for reporting the occurrence of matches between the data stream and the debug stream in a format compatible for human perception.

10 The second plurality of interconnected functional units generate viewpoints and breakpoints in response to similarities between the data streams present within the stream computer and the debug stream . The breakpoint can either interrupt the data stream or let it pass through. Viewpoints do not change the streams they examine.

15 The reporting logic is compatible with a graphical user interface, where the graphical user interface identifies the functional units, input and output streams of each of the functional units.